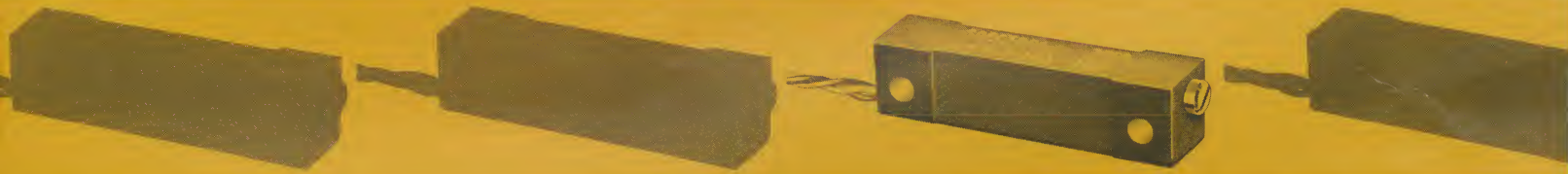


spectrol short form catalog

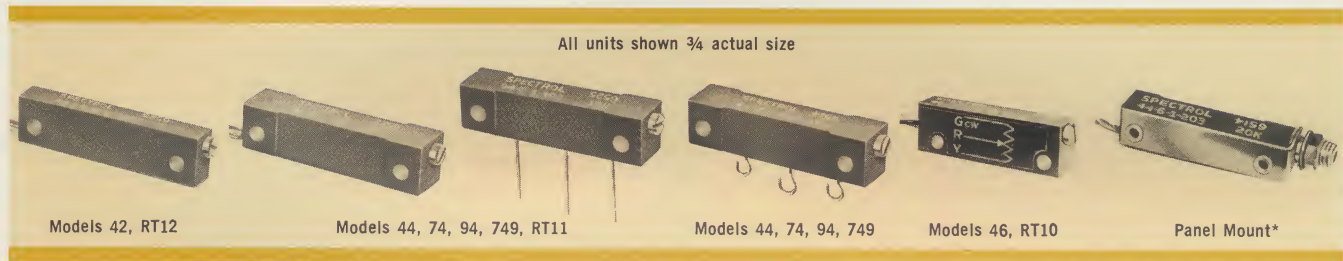
- Trimming Potentiometers
- Precision Potentiometers

- Non-Linear Potentiometers
- Switches and Multidials®



If your electronic equipment design calls for precise trimming with high reliability at realistic cost per unit, you should know — (1) Spectrol designs virtually eliminate noise, hot spots, burnouts, and wiper shifting; (2) Spectrol's selection of terminal configurations is the broadest in the industry; (3) Spectrol trimmers are available in all major configurations, sizes and

performance types including ultraminatures and models that meet severest environmental MIL-SPECS; (4) All lines are subjected to an overnight temperature stabilization process; (5) All models are 100% electrically inspected; and (6) Prices on these military-quality industrial trimmers (many less than \$2. each in quantity) are keyed to a competitive market.



	DESCRIPTION ²	MODEL NO.*	ADJUSTMENT RATIO	TEMPERATURE COEFFICIENT OF RESISTIVITY (PPM/°C)	RESISTANCE TOLERANCE	MAXIMUM POWER RATING (WATTS)	SIZE (INCHES) ¹	STANDARD RESISTANCE RANGE (OHMS)	PRICE 1-9
RECTANGULAR HUMIDITY-PROOF	WIREWOUND L, PC	42†	25 to 1	50	±5%	1 @ 70°C	H .315 W .190 L 1.250	10 to 10K 20K 50K 100K	6.46 7.75 8.70 11.01
	WIREWOUND L, PC, SH	44†	25 to 1	50	±5%	1 @ 70°C	H .315 W .280 L 1.250	10 to 10K 20K 50K 100K	6.46 7.75 8.70 11.01
	WIREWOUND L, PC	46†	15 to 1	50	±5%	1 @ 70°C	H .315 W .180 L 1.000	10 to 10K 20K 50K	7.45 8.94 10.50
	NON-WIREWOUND L, PC, SH	749	25 to 1	±400	±20%	1 @ 70°C	H .315 W .280 L 1.250	10 to 1 Meg	5.95
RECTANGULAR MILITARY TYPE MEETS MIL-R-27208	WIREWOUND L, PC	RT10C2P and L†	15 to 1	50	±5%	1 @ 70°C	H .315 W .180 L 1.000	10 to 10K 20K	7.62 9.11
	WIREWOUND L, PC	RT11C2P and L†	25 to 1	50	±5%	1 @ 70°C	H .315 W .280 L 1.250	10 to 10K 20K	6.63 7.95
	WIREWOUND L, PC	RT12C2P and L†	25 to 1	50	±5%	1 @ 70°C	H .315 W .190 L 1.250	10 to 10K 20K	6.63 7.95
RECTANGULAR INDUSTRIAL TYPE	WIREWOUND L, PC, SH	74†	25 to 1	100	±10%	½ @ 70°C	H .315 W .280 L 1.250	10 to 10K 20K 50K 100K	4.79 5.75 6.46 8.16
	WIREWOUND L, PC, SH	94†	25 to 1	100	±10%	½ @ 70°C	H .313 W .281 L 1.250	50 to 10K 20K	3.23 3.88

¹ DIMENSIONS GIVEN FOR BASIC LEAD WIRE VERSIONS ONLY.

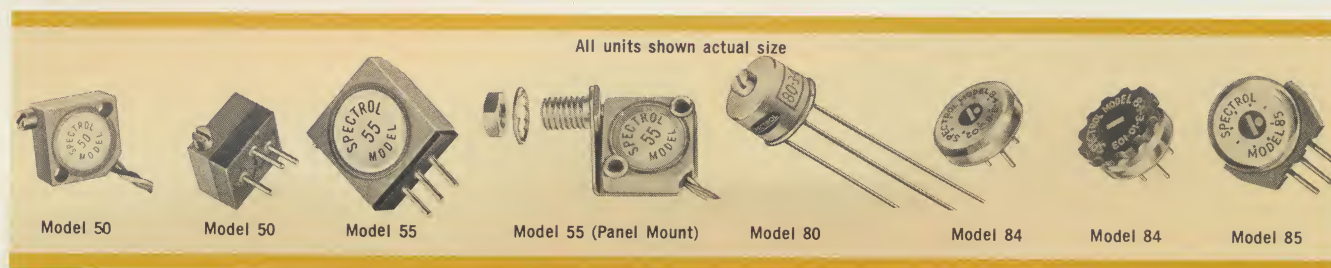
² TERMINATIONS: L—COLOR CODED LEAD WIRES, SH—SOLDER HOOKS, PC—PRINTED CIRCUIT PINS.

* PANEL MOUNT ADAPTER KITS AVAILABLE FOR \$.80 IN 1-9 PIECES QUANTITY.

† DISTRIBUTOR ITEMS.

Rectangulars—Large diameter mandrels dissipate heat efficiently to eliminate burnouts and open circuit failures. Dual wipers maintain positive contact under shock. Military and industrial models. **Squares and Rounds**—Mandrel and case configurations contribute to high power dissipation. All models

meet or exceed applicable environmental military specifications, and are humidity-proof at no extra cost. **Ultraminiature Transistor-Size Models**—Volume of only 0.02 cubic inches allows mounting in one-fourth the usual space. Ideally suited to high-component-density, solid-state, printed circuit applications.



	DESCRIPTION ²	MODEL NO.	ADJUSTMENT RATIO	TEMPERATURE COEFFICIENT OF RESISTIVITY (PPM/°C)	RESISTANCE TOLERANCE	MAXIMUM POWER RATING (WATTS)	SIZE (INCHES) ¹	STANDARD RESISTANCE RANGE (OHMS)	PRICE 1-9
SQUARE HUMIDITY-PROOF	WIREWOUND L, PC	50†*	25 to 1 Continuous or Stops and Clutch	50	±5%	1 @ 50°C	H .375	10 to 10K	7.14
							W .190	20K	8.57
							L .375	50K	9.66
	WIREWOUND L, PC	55†*	25 to 1 or 42 to 1	50	±5%	1.5 @ 70°C	H .500	10 to 10K	6.04
							W .190	20K	7.24
							L .500	50K	8.16
ROUND HUMIDITY-PROOF	WIREWOUND W	80†	1 to 1	50	±5%	1 @ 50°C	H .241	10 to 10K	5.51
							Dia. .345	20K	6.62
								50K	7.45
	SCREWDRIVER ADJUST WIREWOUND PC	84-3-8†	1 to 1	50	±4%	1.5 @ 70°C	H .170	10 to 10K	3.40
							Dia. .500	20K	4.08
								50K	4.59
	KNOB ADJUST WIREWOUND PC	84-3-10†	1 to 1	50	±4%	1.5 @ 70°C	H .270	10 to 10K	4.08
							Dia. .550	20K	4.76
								50K	5.27
	BUSHING PANEL MOUNT WIREWOUND SH	84-5-6†	1 to 1	50	±4%	1.5 @ 70°C	H .460	10 to 10K	5.27
							Dia. .500	20K	5.95
								50K	6.46
	SIDE ADJUST WIREWOUND PC	85†	1 to 1	50	±4%	1.5 @ 70°C	H .535	10 to 10K	4.42
							W .546	20K	5.10
							Depth .255	50K	5.61

¹ DIMENSIONS FOR SQUARE TYPES ARE GIVEN FOR BASIC LEAD WIRE VERSIONS ONLY.

² TERMINATIONS: L—COLOR CODED LEAD WIRES, SH—SOLDER HOOKS, PC—PRINTED CIRCUIT PINS, W—UNINSULATED LEADS.

* PANEL MOUNT ADAPTER KITS AVAILABLE FOR \$.80 IN 1-9 PIECES QUANTITY.

† DISTRIBUTOR ITEMS.

For most applications, choose from the complete Spectrol series of single-turn, three-turn, five-turn, ten-turn, precision wirewound potentiometers listed on these two pages. Many models can be ganged and easily phased in the field.

Close linearities are assured by winding equipment designed and built in-house by Spectrol. Other quality features include: fine resolution from extra-long resistance elements; high reliability

through a unique "whisker" slip ring brush that assures positive contact under severe shock and vibration, yet exhibits low torque and long rotational life; and mounting flexibility with optional servo and bush mountings. All models meet or exceed applicable military and commercial specifications for rotational load life, temperature range, shock, vibration, humidity and salt spray.



MODEL NO.	RESISTANCE RANGE (OHMS)	RESISTANCE TOLERANCE	LINEARITY TOLERANCE		MAXIMUM POWER RATING (WATTS)	OPERATING TEMPERATURE RANGE	SIZE (INCHES) ²		MOUNTING AVAILABLE	PRICE 1-9 ³
			STANDARD	BEST PRACTICAL ¹			Dia.	Length		
*100	5 to 39K	±3% (±5% below 50Ω)	50Ω to 39K ±0.5% 5Ω to 50Ω ±1.0%	±.15%	2.75 @ 40°C	—55°C to +105°C	1.312	.705	Bushing	12.00
							Length	.250	Servo	17.00
*110	5 to 30K	±3% (±5% below 20Ω)	300Ω to 30K ±0.5% 5Ω to 300Ω ±1.0%	±.20%	2 @ 40°C	—55°C to +105°C	1.125	.470	Bushing	18.00
							Length	.125	Servo	23.00
*120	5 to 142K	±3% (±5% below 20Ω)	200Ω to 142K ±0.5% 5Ω to 200Ω ±1.0%	±.20%	2 @ 40°C	—55°C to +105°C	1.062	.687	Bushing	23.00
							Length	.125	Servo	28.00
142	50 to 70K	±5%	±1.0%	±.50%	2 @ 40°C	—55°C to +125°C	.500	.625	Servo	17.50
							Length	.125		
*170	5 to 49K	±3% (±5% below 50Ω)	100Ω to 49K ±.50% 5Ω to 100Ω ±.75%	±.15%	2.75 @ 40°C	—55°C to +105°C	1.438	.705	Bushing	18.00
							Length	.250	Servo	23.00
*190	5 to 65K	±3% (±5% below 50Ω)	500Ω to 65K ±.30% 50Ω to 500Ω ±.50% 5Ω to 50Ω ±.75%	±.15%	3.5 @ 40°C	—55°C to +105°C	1.625	.800	Bushing	18.00
							Length	.250	Servo	23.00
*200	5 to 65K	±3% (±5% below 50Ω)	500Ω to 65K ±.30% 50Ω to 500Ω ±.50% 5Ω to 50Ω ±.75%	±.15%	4.5 @ 40°C	—55°C to +105°C	1.750	.705	Bushing	18.00
							Length	.250	Servo	20.00
*210	5 to 65K	±3% (±5% below 50Ω)	500Ω to 65K ±.30% 50Ω to 500Ω ±.50% 5Ω to 50Ω ±.75%	±.15%	3 @ 40°C	—55°C to +105°C	1.750	.705	Bushing	15.00
							Length	.250	Servo	18.00
*300	5 to 85K	±3% (±5% below 50Ω)	200Ω to 85K ±.30% 50Ω to 200Ω ±.50% 5Ω to 50Ω ±.75%	±.10%	5 @ 40°C	—55°C to +105°C	2.000	.705	Bushing	19.00
							Length	.250	Servo	21.00
*310	5 to 85K	±3% (±5% below 50Ω)	200Ω to 85K ±.30% 50Ω to 200Ω ±.50% 5Ω to 50Ω ±.75%	±.10%	3.5 @ 40°C	—55°C to +105°C	2.000	.705	Bushing	17.00
							Length	.250	Servo	20.00
*400	10 to 158K	±3% (±5% below 100Ω)	10Ω to 158K ±.30%	±.075%	7 @ 40°C	—55°C to +105°C	3.000	.705	Bushing	21.00
							Length	.250	Servo	23.00
*410	10 to 158K	±3% (±5% below 100Ω)	10Ω to 158K ±.30%	±.075%	5 @ 40°C	—55°C to +105°C	3.000	.705	Bushing	18.00
							Length	.250	Servo	21.00
*700	5 to 109K	±3% (±5% below 20Ω)	500Ω to 109K ±0.5% 5Ω to 500Ω ±1.0%	±.25%	1.75 @ 40°C	—55°C to +105°C	.875	.687	Bushing	20.00
							Length	.125	Servo	25.00
130†	5 to 39K	±3%	200Ω to 39K ±0.5% 5Ω to 200Ω ±1.0%	±.20%	2.75 @ 40°C	—55°C to +105°C	1.312	.625	Bushing	9.00
							Length	.250		
140†	50 to 70K	±5%	±1.0%	±.50%	2 @ 40°C	—55°C to +125°C	.500	.305	Bushing	8.65
							Length	.125		

¹ BEST PRACTICAL LINEARITY FIGURES SHOWN FOR THE VARIOUS MODELS APPLY TO HIGHER RESISTANCE UNITS. CONSULT MANUFACTURER WITH SPECIFIC REQUIREMENTS.

² DIMENSIONS LISTED ARE FOR THE BUSHING MOUNT VERSIONS.

³ THE PRICES SHOWN ARE FOR STANDARD LINEARITY.

* UNITS ARE GANGABLE.

† DISTRIBUTOR ITEMS.

SINGLE-TURN WIREWOUND
MILITARY

SINGLE-TURN WIREWOUND
INDUSTRIAL

For special applications, remember Spectrol's well-earned reputation for unusual service in providing special precision potentiometers to help equipment designers solve unique problems.

In addition to offering a full line of off-the-shelf models,

Spectrol is a custom house whose success is founded on exceptional responsiveness to its customers' needs and requirements. You can confidently turn to Spectrol for highly competent support in your most challenging design assignments for which no standard potentiometer is available.

All units shown 1/2 size



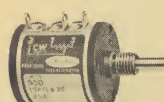
Model 162



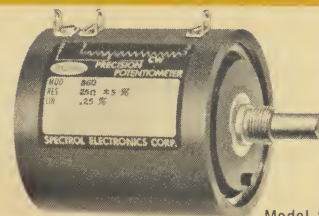
Model 500



Model 530



Model 550



Model 860

	MODEL NO.	RESISTANCE RANGE (OHMS)	RESISTANCE TOLERANCE	LINEARITY TOLERANCE STANDARD	BEST PRACTICAL ¹	MAXIMUM POWER RATING (WATTS)	OPERATING TEMPERATURE RANGE	SIZE (INCHES) ²	MOUNTING AVAILABLE	PRICE 1-9 ³
THREE-TURN WIREWOUND MILITARY	*550	5 to 45K	±3% (±5% below 50Ω)	±.25%	±.125%	1.5 @ 40°C	—55°C to +125°C	Dia. .875 Length .948 Shaft Dia. .125	Bushing Servo	15.00 20.00
	*820	15 to 119K	±3% (±5% below 50Ω)	±.25%	±.075%	3.75 @ 40°C	—55°C to +105°C	Dia. 1.438 Length 1.240 Shaft Dia. .250	Bushing Servo	25.00 30.00
	*850	15 to 155K	±3% (±5% below 100Ω)	±.25%	±.05%	4.75 @ 40°C	—55°C to +125°C	Dia. 1.812 Length 1.220 Shaft Dia. .250	Bushing Servo Screw	14.00 20.00 20.00
THREE-TURN WIREWOUND INDUSTRIAL	830†	15 to 155K	±3% (±5% below 100Ω)	±.25%	±.05%	3 @ 40°C	—55°C to +105°C	Dia. 1.812 Length 1.220 Shaft Dia. .250	Bushing	10.00
FIVE-TURN WIREWOUND INDUSTRIAL	520	10 to 76K	±3% (±5% below 50Ω)	±.25%	±.15%	2 @ 40°C	—55°C to +105°C	Dia. .875 Length 1.094 Shaft Dia. .250	Bushing	12.00
TEN-TURN WIREWOUND MILITARY	160	15 to 115K	±5%	±.50%	±.10%	2.5 @ 40°C	—55°C to +125°C	Dia. .531 Length 1.110 Shaft Dia. .094	Bushing Servo	32.00 40.00
	*500†	15 to 152K	±3% (±5% below 100Ω)	±.25%	±.05%	3 @ 40°C	—55°C to +125°C	Dia. .875 Length 1.448 Shaft Dia. .125	Bushing Servo	15.00 20.00
	*570	20 to 185K	±3% (±5% below 150Ω)	±.25%	±.05%	3 @ 40°C	—55°C to +105°C	Dia. 1.000 Length 1.448 Shaft Dia. .250	Bushing Servo Screw	15.00 20.00 20.00
	*800	20 to 519K	±3% (±5% below 200Ω)	±.25%	±.025%	8 @ 40°C	—55°C to +125°C	Dia. 1.812 Length 2.000 Shaft Dia. .250	Bushing Servo Screw	15.00 20.00 20.00
	*870	40 to 398K	±3% (±5% below 150Ω)	±.25%	±.03%	6.5 @ 40°C	—55°C to +105°C	Dia. 1.438 Length 2.015 Shaft Dia. .250	Bushing Servo	25.00 30.00
TEN-TURN WIREWOUND INDUSTRIAL	162† 163 164	100 to 100K	±5%	±.30%	±.15%	2 @ 40°C	—55°C to +125°C	Dia. .500 Length 1.000 Shaft Dia. .094 ⁴	162 (Bush) 163 (Bush) 164 (Servo)	10.00 11.50 18.50
	510†	15 to 152K	±3% (±5% below 100Ω)	±.25%	±.10%	3 @ 40°C	—55°C to +105°C	Dia. .875 Length 1.448 Shaft Dia. .250	Bushing	10.00
	530†	100 to 150K	±5%	±.25%	±.10%	3 @ 40°C	—55°C to +105°C	Dia. .875 Length 1.400 Shaft Dia. .250	Bushing	7.00
	810†	20 to 519K	±3% (±5% below 200Ω)	±.25%	±.025%	8 @ 40°C	—55°C to +105°C	Dia. 1.812 Length 2.000 Shaft Dia. .250	Bushing	12.00
	860†	20 to 519K	±3% (±5% below 200Ω)	±.25%	±.10%	8 @ 40°C	—55°C to +105°C	Dia. 1.812 Length 2.000 Shaft Dia. .250	Bushing	10.00

¹ BEST PRACTICAL LINEARITY FIGURES SHOWN FOR THE VARIOUS MODELS APPLY TO HIGHER RESISTANCE UNITS. CONSULT MANUFACTURER WITH SPECIFIC REQUIREMENTS.

² DIMENSIONS LISTED ARE FOR THE BUSHING MOUNT VERSIONS.

³ THE PRICES SHOWN ARE FOR STANDARD LINEARITY.

⁴ 163 HAS .250 INCH SHAFT DIA.

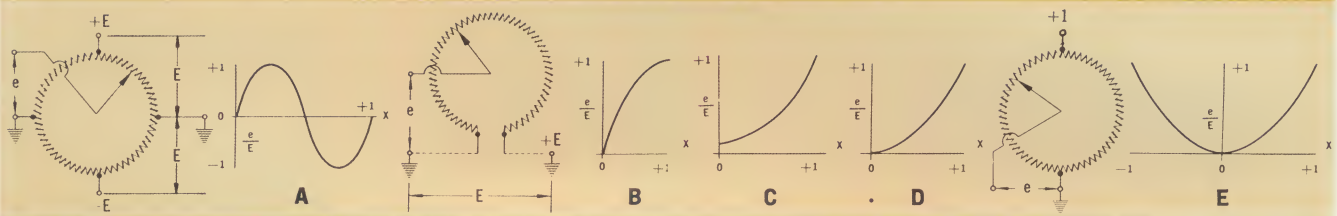
* UNITS ARE GANGABLE.

† DISTRIBUTOR ITEMS.

On the tables below, high and low values of resistance, with corresponding "best practical" peak-to-peak conformity obtainable, are given for the functions in each model size under the conditions of full electrical rotation and unloaded slider. For function angles less than full rotation, resistance and conformity values can be calculated based on resistance being directly proportional to the function angle, and conformity being inversely proportional to the function angle.

Empirical (Data Points)

Resistance and conformity is given in the table below in terms of S (maximum $\frac{\Delta(\frac{e}{E})}{\Delta X}$), provided the following conditions are met. $0 \leq \frac{e}{E} \leq 1, 0 \leq X \leq 1$ and $\frac{\Delta(\frac{e}{E})}{\Delta X}$ does not change sign (i.e., no slope reversal).



	MODEL NO.	DIA. (INCHES)	360° SIN A	90° SIN B	SINGLE SIDED SQUARE D	DOUBLE SIDED SQUARE E	SINGLE CYCLE EXP. C	TWO CYCLE EXP. C	EMPIRICAL							
SINGLE-TURN	700	7⁄8	3.5K 250Ω	.9% 1.1	13K 1K	.5 .6	10K 1K	.6 .7	2.8K 250Ω	1.2 1.4	10K 1K	.7 .8	5K 500Ω	1.4 1.6	27K S 1K S	S(0.32) S(0.41)
	100	1⅜	6K 500Ω	.6% .8	22K 1K	.35 .5	18K 1K	.4 .55	5K 250Ω	.8 1.1	17K 1K	.45 .6	8.5K 500Ω	.9 1.2	53K S 1K S	S(0.22) S(0.33)
	110	1⅜	5K 250Ω	.85% 1.1	18K 1K	.45 .55	14K 1K	.55 .70	4K 250Ω	1.1 1.3	14K 1K	.60 .80	7K 500Ω	1.2 1.6	35K S 1K S	S(0.29) S(0.41)
	120	1⅜	5K 250Ω	.75% 1.0	18K 1K	.4 .5	14K 1K	.5 .65	4K 250Ω	1.0 1.2	14K 1K	.55 .7	7K 500Ω	1.1 1.4	39K S 1K S	S(0.26) S(0.37)
	170	1⅜	7.5K 500Ω	.55% .7	28K 1K	.3 .4	22K 1K	.35 .5	6K 500Ω	.7 .9	20K 1K	.4 .55	10K 1K	.8 1.0	59K S 2K S	S(0.19) S(0.26)
	190	1⅝	10K 1K	.5% .6	35K 2K	.25 .35	30K 1K	.3 .45	8K 500Ω	.6 .8	28K 1K	.35 .5	14K 1K	.7 .9	77K S 2K S	S(0.16) S(0.24)
	200	1¾	12K 1K	.45% .55	45K 2K	.25 .35	35K 1K	.3 .45	10K 1K	.55 .7	34K 1K	.35 .45	17K 1K	.65 .85	77K S 2K S	S(0.15) S(0.22)
	300	2	15K 1K	.4% .5	60K 2K	.2 .3	45K 2K	.25 .35	13K 1K	.45 .55	45K 2K	.3 .4	22K 1K	.55 .75	103K S 2K S	S(0.13) S(0.19)
	400	3	25K 1K	.25% .35	95K 2K	.15 .2	75K 2K	.15 .25	20K 1K	.3 .4	70K 2K	.2 .25	35K 1K	.35 .5	213K S 4K S	S(0.08) S(0.12)
	THREE-TURN	550	7⁄8	7K 500Ω	.5% .6	25K 1K	.3 .35	20K 1K	.35 .40	5K 250Ω	.65 .75	20K 1K	.4 .45	10K 1K	.75 .85	61K S 1K S
820		1⅜	20K 1K	.3% .35	75K 2K	.15 .2	60K 1K	.2 .3	15K 1K	.4 .45	55K 1K	.25 .3	28K 1K	.45 .55	175K S 2K S	S(0.10) S(0.13)
850		1⅜	25K 1K	.25% .3	95K 2K	.15 .2	75K 2K	.15 .2	20K 1K	.3 .35	75K 1K	.2 .25	35K 1K	.35 .45	228K S 2K S	S(0.08) S(0.11)
500		7⁄8	24K 1K	.2% .25	85K 2K	.1 .15	70K 1K	.15 .2	19K 1K	.25 .3	65K 1K	.15 .2	33K 1K	.3 .35	205K S 2K S	S(0.065) S(0.085)
TEN-TURN	570	1	30K 1K	.15% .2	100K 2K	.1 .15	80K 1K	.1 .15	23K 1K	.2 .25	80K 1K	.15 .2	40K 1K	.25 .3	249K S 2K S	S(0.055) S(0.075)
	870	1⅜	70K 1K	.15% .2	250K 4K	.075 .1	200K 4K	.075 .1	50K 1K	.15 .2	190K 2K	.1 .15	85K 1K	.2 .25	582K S 4K S	S(0.04) S(0.055)
	800	1⅜	90K 1K	.1% .15	320K 4K	.05 .075	250K 2K	.075 .1	70K 1K	.15 .2	250K 2K	.075 .1	125K 1K	.15 .2	760K S 5K S	S(0.03) S(0.04)

Spectrol Model 88 Rotary Selector Switches introduce a new dimension of flexibility to discrete component circuitry. Now, for the first time, miniature switches are available in volume quantities at production-line prices for mounting directly on printed circuit boards, or for panel mounting. Designed with only two moving parts, these unique ½-inch switches have application wherever printed circuit boards are used ... can be used to

make other components do multiple duty. Spectrol offers the new switches in both ten-position center-pin and nine-position center-pin configurations for wide use on either double-sided or single-sided boards.

Multidials: Spectrol also offers a complete line of precision turns-counting dials for use on multi-turn potentiometers and other rotating devices.

All units shown ½ size



	DESCRIPTION	MODEL NO.*	SWITCH ACTION	CONTACT CURRENT RATING	LIFE AT RATED CURRENT	CONTACT RESISTANCE	OPERATING TEMPERATURE RANGE	SIZE (INCHES)	PRICE 1-9
ROTARY SELECTOR SWITCHES	SCREWDRIVER ADJUST	88-3-8†	POSITIVE DETENT, 36° INDEXING, CONTINUOUS ROTATION	250MA @ 28VDC	20,000 SWITCHING OPERATIONS, OR 2,000 REVOLUTIONS	INITIAL: .05Ω MAX. AFTER LIFE: CONTACT RESISTANCE CHANGE ±.05Ω	—65° to +150°C	H Dia. .180 .500	3.40
	KNOB ADJUST	88-3-10†	POSITIVE DETENT, 36° INDEXING, CONTINUOUS ROTATION	250MA @ 28VDC	20,000 SWITCHING OPERATIONS, OR 2,000 REVOLUTIONS	INITIAL: .05Ω MAX. AFTER LIFE: CONTACT RESISTANCE CHANGE ±.05Ω	—65° to +150°C	H Dia. .270 .550	4.08
	BUSHING PANEL MOUNTING	88-5-6†	POSITIVE DETENT, 36° INDEXING, CONTINUOUS ROTATION	250MA @ 28VDC	20,000 SWITCHING OPERATIONS, OR 2,000 REVOLUTIONS	INITIAL: .05Ω MAX. AFTER LIFE: CONTACT RESISTANCE CHANGE ±.05Ω	—65° to +150°C	H Dia. .465 .500	5.27
	SCREWDRIVER ADJUST	88-3-18‡	POSITIVE DETENT, 36° INDEXING, CONTINUOUS ROTATION	250MA @ 28VDC	20,000 SWITCHING OPERATIONS, OR 2,000 REVOLUTIONS	INITIAL: .05Ω MAX. AFTER LIFE: CONTACT RESISTANCE CHANGE ±.05Ω	—65° to +150°C	H Dia. .180 .500	3.40
	KNOB ADJUST	88-3-20‡	POSITIVE DETENT, 36° INDEXING, CONTINUOUS ROTATION	250MA @ 28VDC	20,000 SWITCHING OPERATIONS, OR 2,000 REVOLUTIONS	INITIAL: .05Ω MAX. AFTER LIFE: CONTACT RESISTANCE CHANGE ±.05Ω	—65° to +150°C	H Dia. .270 .550	4.08

¹ SINGLE POLE, 10 POSITION, NON-SHORTING.

² SINGLE POLE, 10 POSITION (ONE OFF), NON-SHORTING.

^{*} INSULATION RESISTANCE AND DIELECTRIC WITHSTANDING VOLTAGE: NOT LESS THAN 1,000 MEGOHMS AND 1,000 VOLTS AC AT SEA LEVEL, RESPECTIVELY. SHOCK: 50 G'S FOR 11 MILLISECONDS. (METHOD 205B OF MIL-STD-202B).

VIBRATION: 20 G'S AT 20-2,000 CPS. (METHOD 204, TEST CONDITION D OF MIL-STD-202B).

[†] DISTRIBUTOR ITEMS.

	MODEL NO.	NUMBER OF TURNS	MINOR SCALE DIVISION	SHAFT BORE (INCHES)	FINISH	SIZE (INCHES)		PRICE 1-9
MULTI-TURN TURNS COUNTING DIALS	10-1-11†	10	1/100 TURN	.250³	BLACK ANODIZED	Dia. Depth	1.000 1.000	8.75
	11-1-11†	11	1/50 TURN	.250³	SATIN CHROME	Dia. Depth	1.000 .812	7.75
	12-1-11†	10	1/50 TURN	.250³	BLACK ANODIZED	Dia. Depth	1.000 1.000	8.75
	14-1-11†	10	1/50 TURN	.250³	BLACK ANODIZED	.812W Depth	.906H 1.000	9.75
	20-1-11†	10	1/100 TURN	.250³	BLACK ANODIZED	Dia. Depth	1.812 1.000	7.50
	25-1-13†	11	1/500 TURN	.250	SATIN CHROME	Dia. Depth	1.812 1.625	14.25
	25-4-13†	100	1/500 TURN	.250	SATIN CHROME	Dia. Depth	1.812 1.625	19.75
	30-1-11†	10	1/100 TURN	.250³	SATIN CHROME	Dia. Depth	1.812 .875	5.75

³ ALSO AVAILABLE FOR .125" AND .094" SHAFT DIAMETERS.

[†] DISTRIBUTOR ITEMS.

spectrol

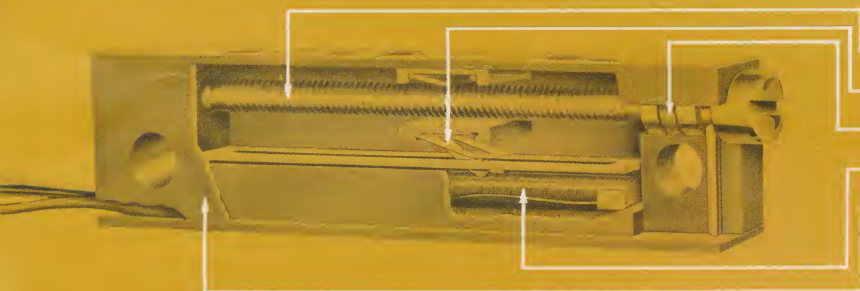
ELECTRONICS CORPORATION

This short form catalog covers all of the basic models in the Spectrol line. You may obtain additional engineering and application data from your nearest Spectrol engineering sales representative or stocking distributor, or by contacting one of these factory headquarters offices:

CALIFORNIA, City of Industry
Spectrol Electronics Corporation
17070 East Gale Avenue
Phone: (213) 964-6565
TWX: (213) 686-6780

NEW YORK, Plainview, L.I.
Spectrol Electronics Corporation
Adams Court
Phone: (516) 938-4000
TWX: (516) 433-9461

ITALY, Milan
S-P Elettronica, S.p.A.
Via Carlo Piscane, 10/4
Pero (Milan)
Phone: 353-0688



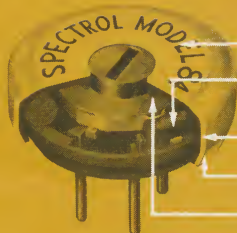
RECTANGULAR TRIMMERS

One-piece passivated stainless steel shaft provides mechanical strength, reliability, and electrical isolation.
Dual wiper and twin precious metal collector strips maintain positive contact under severe vibration and shock.
Silicone rubber "O" ring shaft seal withstands immersion. Units can be potted including shaft head.
Larger diameter longer mandrel of silicone coated copper gives better heat dissipation, avoids burnouts.
Molded diallyl phthalate base and housing provide mechanical ruggedness for critical applications.



SQUARE TRIMMERS

Gold plated pins assure solderability, even after long storage. Standard 0.1" pin spacing for printed circuits.
Mechanical clutch prevents over-travel damage.
Adjustment shaft for either 25 or 42 turn adjustment available with same shaft location.



ROUND TRIMMERS

Metal case provides greater heat dissipation, avoids hot spots, allows high power rating to 1½ watts at 70°C.
Largest resistance element available in any ½ inch trimmer is made possible by placing the element against the silicone-rubber lined metal cover.
Silicone rubber lined cover provides a true voltage breakdown barrier.
Silicone rubber lined cover is crimped to the base completely sealing the unit against dust and moisture.
Packing gland sealing of the shaft is provided by the unique molded rubber-lining permitting full potting or immersion.



MINIATURE SWITCHES

Silicone rubber lined cover provides a true voltage breakdown barrier.
Higher contact force than conventional switches is possible because contact does not wipe across softer non-conductive surfaces.
Cam actuated switch action provides maximum rate of make and break.
Silicone rubber lined cover is crimped to the base, completely sealing the unit against dust and moisture.
Contact design provides self scrubbing features that constantly polishes the contact during the duty cycle.

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4710 North 16th St., Suite #103
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3108 - 5th Avenue
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Lex-Manor Bldg., Room 223
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TWX: (610) 421-3684

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TWX: (516) 333-2280

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here's the literature you requested

We hope it answers your questions and that our Spectrol products will fit into your particular application.

If you need more information, or if you would like someone from our organization to call on you, just drop a line to my attention. I will see to it that you receive a prompt reply.

spectrol

17070 EAST GALE AVENUE CITY OF INDUSTRY, CALIFORNIA 91745

Please send complete information on

☐ Precision Pots

☐ Turns-counting Dials

☐ Trimmers

☐ Miniature Switches

Nº 1230

My request for information is for

☐ A current application

☐ A possible future application

☐ Our technical files

PUB. E

ISSUE 5-30

REP. 56

MODEL PP

MAILED

8-26-66

T. Nelson

Box 1546

Poughkeepsie, New York

12603

Please have a Spectrol representative ☐ Visit ☐ Phone _____

Add my name to your mailing list ☐ Reference only ☐

Please correct address and spelling

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...from Spectrol Electronics Corporation. We hope you find it useful and informative. You may obtain additional engineering and sales data from your nearest Spectrol engineering-sales representative or stocking distributor whose names appear on a separate enclosure.

If you would like to be placed on our mailing list to receive technical data sheets on new products as they become available, please check your name for spelling and address and return the post-paid reply card to us.

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